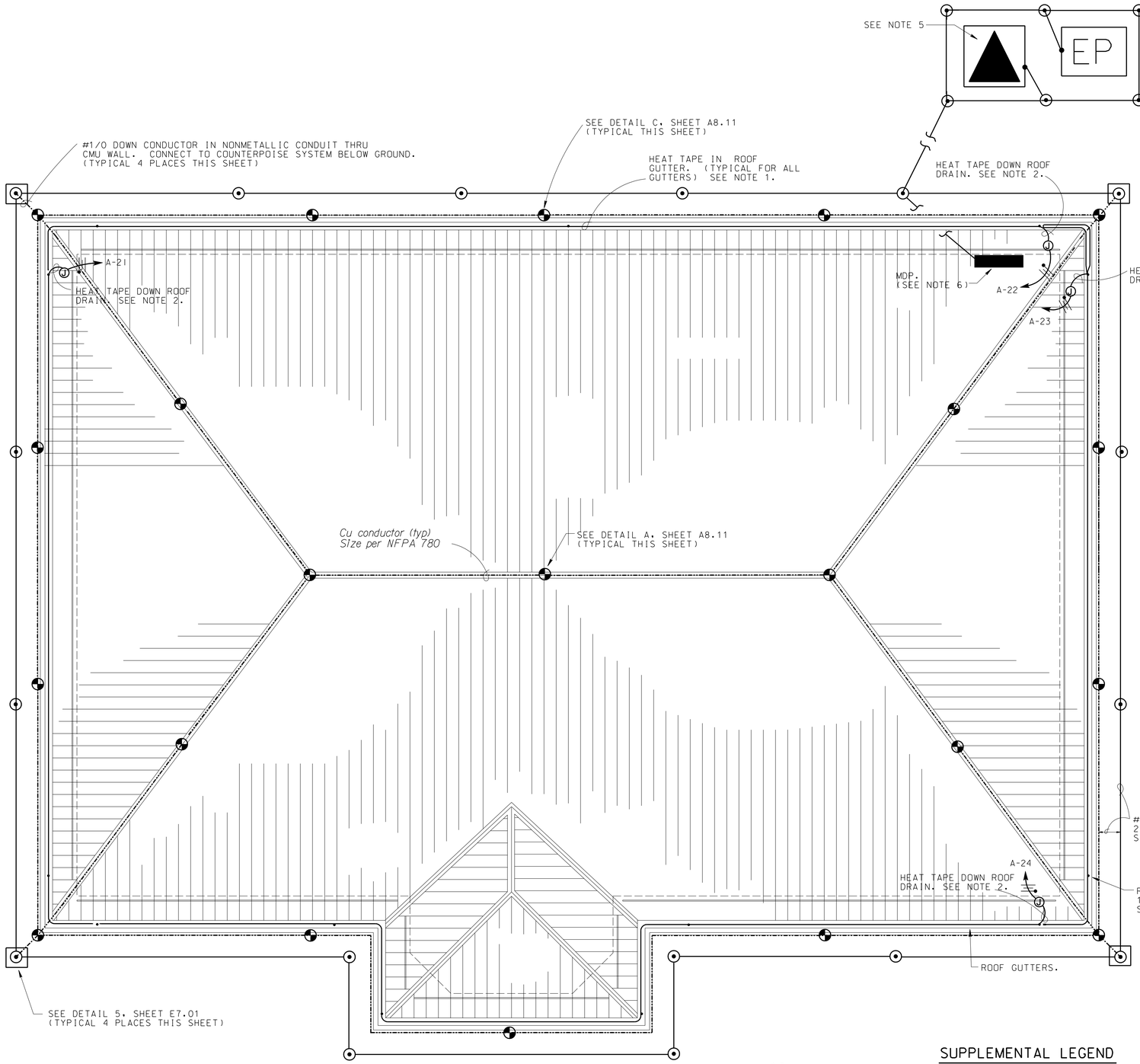


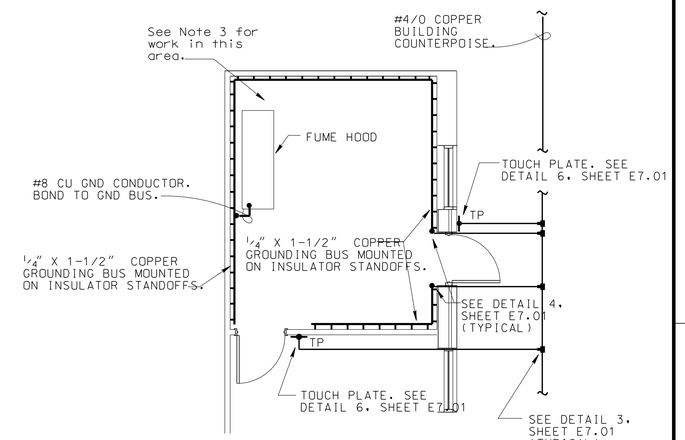
LIGHTNING , HEAT TAPE, & GROUNDING PLAN

SCALE: 1/4 INCH = 1 FOOT
12" 0 5'

N

NOTES:

1. HEAT TAPE SHALL BE SELF REGULATING, UL APPROVED FOR SNOW AND ICE MELTING HEATING CABLE. HEAT TAPE SHALL BE CHROMALOX TYPE STM OR EQUAL WITH A THERMAL OUTPUT OF 5 WATTS PER FT. AT 40 DEGREES F; 8 WATTS PER FT. WHEN MELTING SNOW AND ICE; MAXIMUM CONTINUOUS EXPOSURE TEMPERATURE OF 150 DEGREES F; MINIMUM INSTALLATION TEMPERATURE OF MINUS 40 DEGREES F AND MAXIMUM LENGTH SHALL BE 100 FT.
2. EXTEND HEAT TAPE DOWN THROUGH ROOF DRAIN. ONCE INSIDE THE BUILDING, PUNCH HEAT TAPE THROUGH THE TOP OF THE DOWN SPOUT AND SEAL. CONNECT HEAT TAPE TO BRACH CIRCUIT IN J-BOX MOUNTED IN THE CEILING SPACE.
3. ROOM 117 IS CLASSIFIED AS A CLASS I, DIVISION II, GROUP D HAZARDOUS AREA TO +48" ABOVE FLOOR. MOUNT GROUND BUS 54" ABOVE FLOOR.
4. BOND LIGHTNING PROTECTION SYSTEM TO THE ELECTRICAL SERVICE GROUND AS PER NFPA 70 AND NFPA 780.
5. LOCATION OF PAD MOUNTED EQUIPMENT IS APPROXIMATE. SEE DRAWING NUMBER AF 125-90-01, SHEET EU.10 FOR EXACT LOCATION.
6. GROUNDING OF ELECTRICAL SERVICE ENTRANCE SHALL BE IN ACCORDANCE WITH SPECIFICATION SECTION 16415.



GROUNDING PLAN - ROOM 117

SCALE: 1/4 INCH = 1 FOOT
12" 0 5'

#4/0 COPPER COUNTERPOISE 2' TO 10' FROM EDGE OF STRUCTURE. SEE SPECIFICATION.

ROOF DRAINS TYPICAL 12 LOCATIONS THIS SHEET.

SUPPLEMENTAL LEGEND

- TP — METALLIC TOUCH PLATE
- EXOTHERMIC WELD
- 24" AIR TERMINAL
- #1/0 COPPER CONDUCTOR - UNDERROOF
- GROUND ROD TEST BOX SEE DETAIL 5, SHEET E7.01
- GROUND ROD

EXAMPLE 100% DESIGN

$$ – THINK VALUE ENGINEERING – $$

Revisions

Symbol	Descriptions	Date	Approved

U.S. ARMY ENGINEER DISTRICT
CORPS OF ENGINEERS
OMAHA, NEBRASKA

Designed by: XXX	SITE NAME: OMAHA DISTRICT DESIGN GUIDE	SITE LOCATION
Drawn by: XXX.	LIGHTNING, HEAT TAPE AND GROUNDING PLAN	
Checked by: XXXI.		
Reviewed by: XXX.	Plot Scale Ratio: 4:1	Date: JUNE 2002
Submitted by: Chief: ELECTRICAL Section	Design File: oddga001.dgn	
	Spec. No.: DACA 45	Drawing Code: X
	Contract No.: DACA 45	Sheet reference number: E4.01

COMPUTER AIDED DESIGN & DRAFTING